

MalE-CORE+1 RECOMBINANT PROTEINS

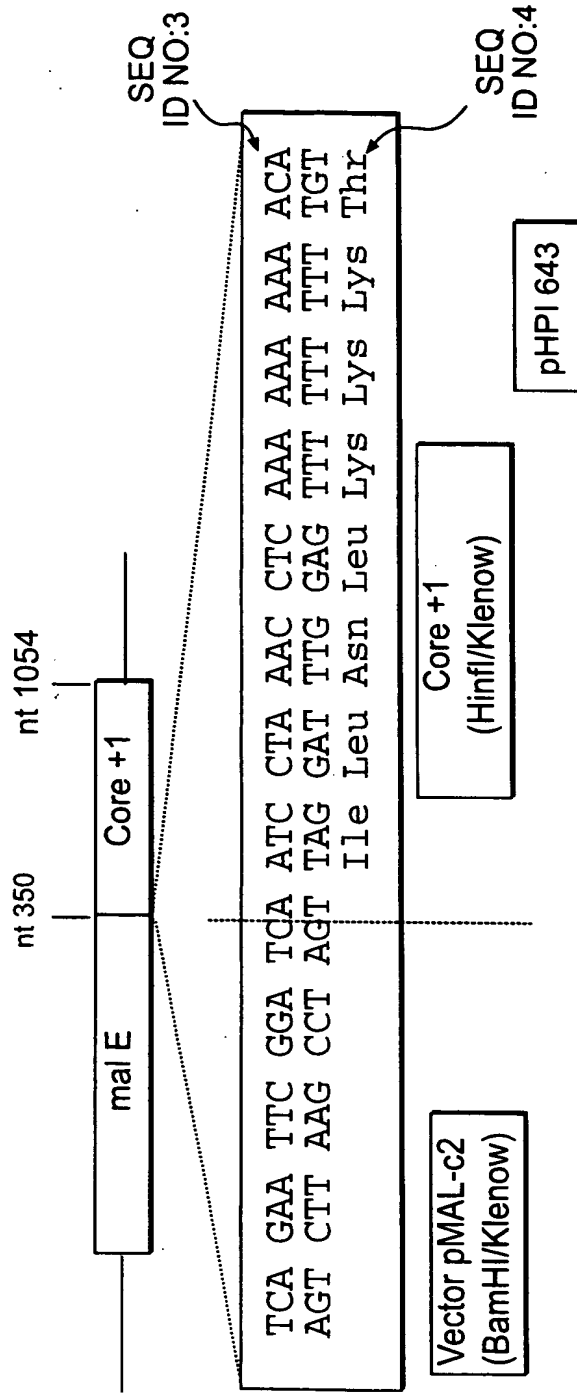
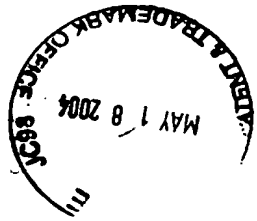


FIG. 1A



nt 390 nt 920

mal E Core+1

SEQ ID NO:5 SEQ ID NO:6

ATC GAG GGA AGG GTC GCC CAC CAC AGG AGG TCA AGT

TAG GTC CCT TCC CAG CGG GTG TCC TGC AGC TCA

Val Ala His Arg Thr Ser Ser

Core +1

Blunt end fragment
-PCR with C61/C54

Vector pMAL-c2
(XmnI/Klenow)

pHPI 644

Substitute Figure

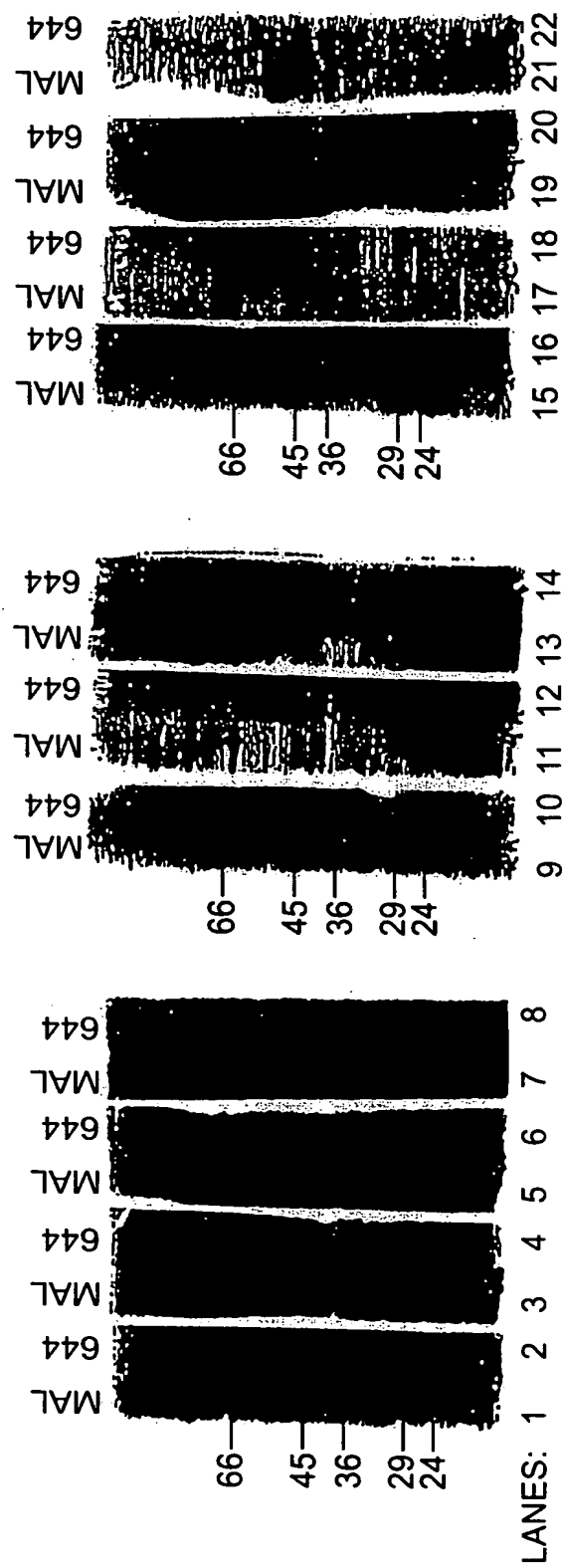


FIG. 3A

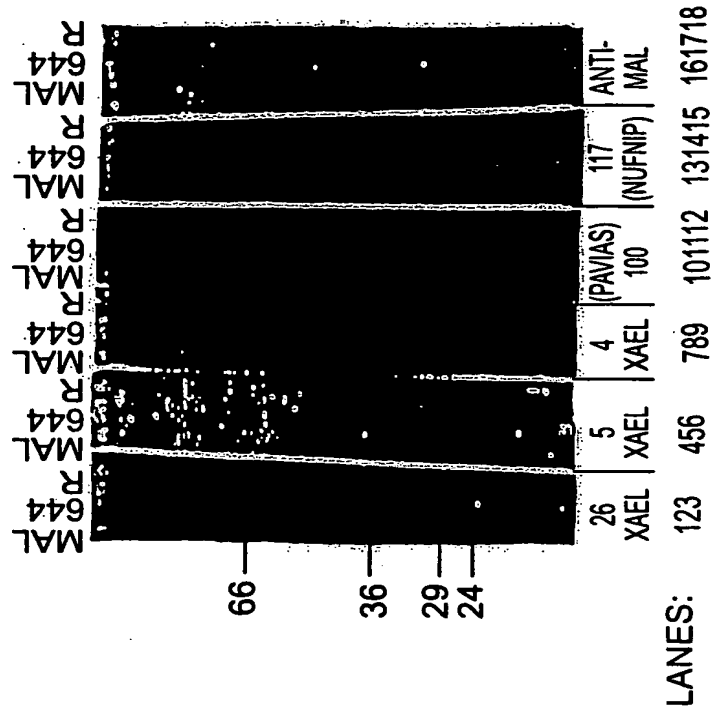


FIG. 3B

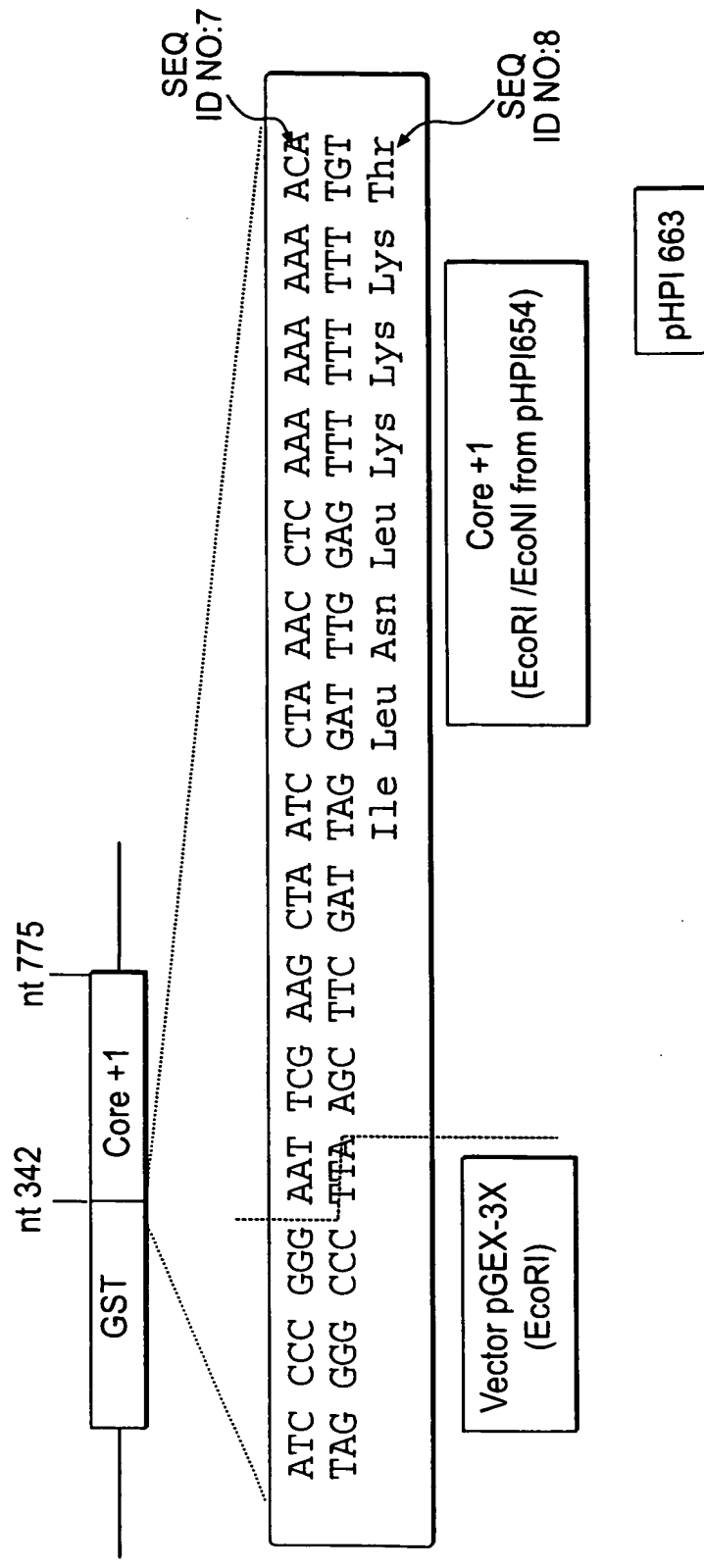


FIG. 4A

GST-CORE+1 RECOMBINANT PROTEINS

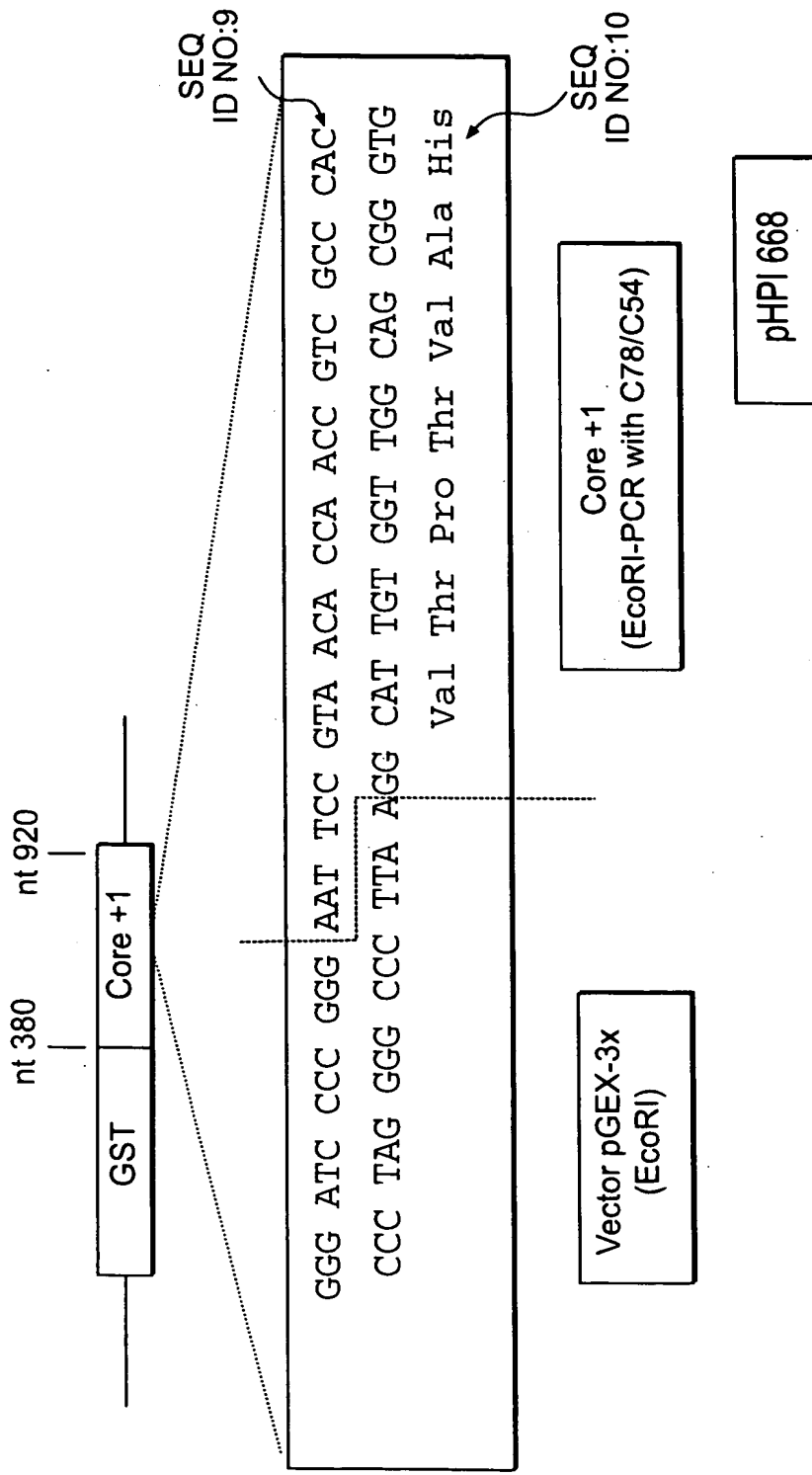


FIG. 4B

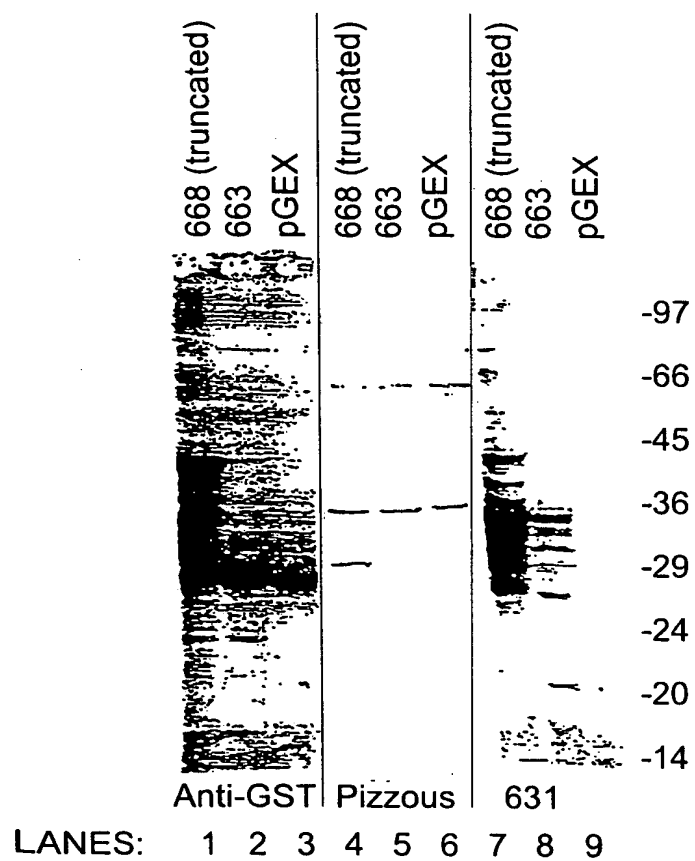


FIG. 5

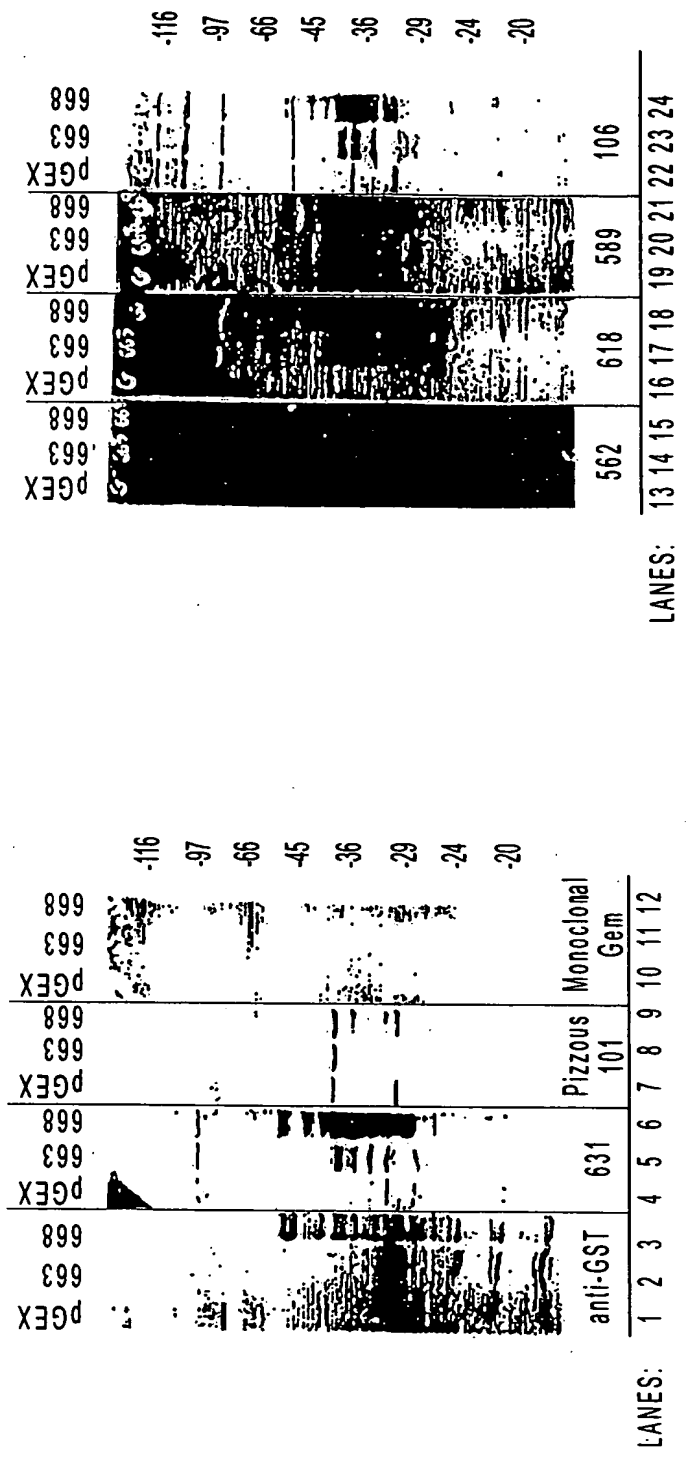


FIG. 6

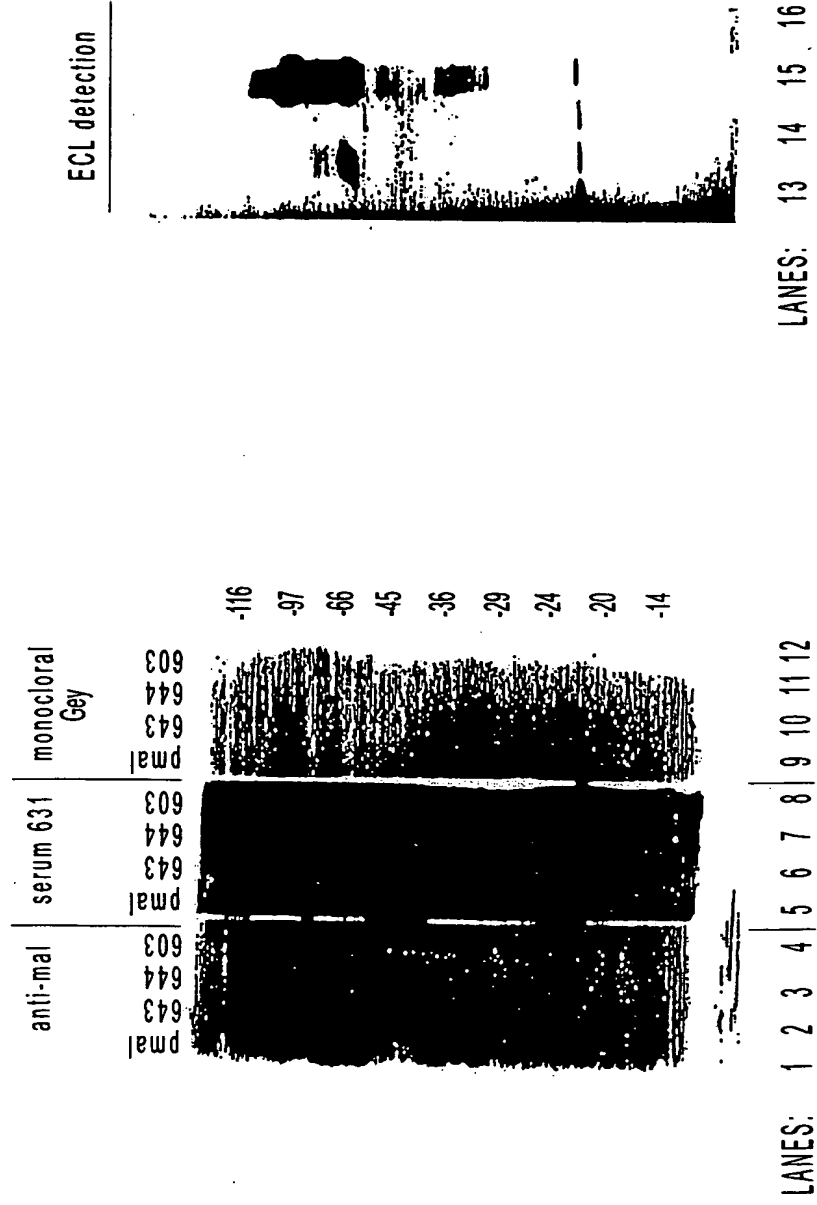


FIG. 7A

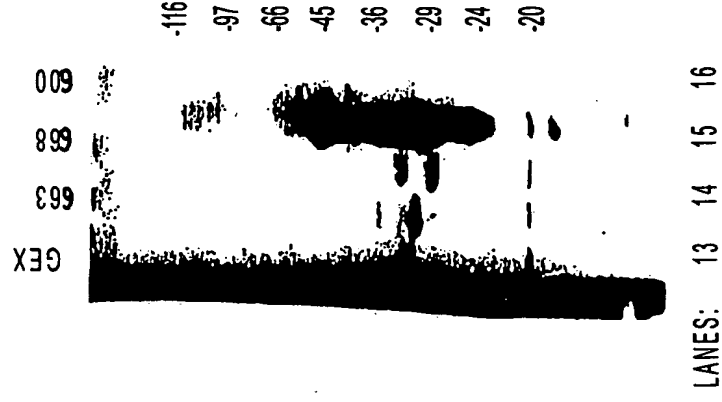
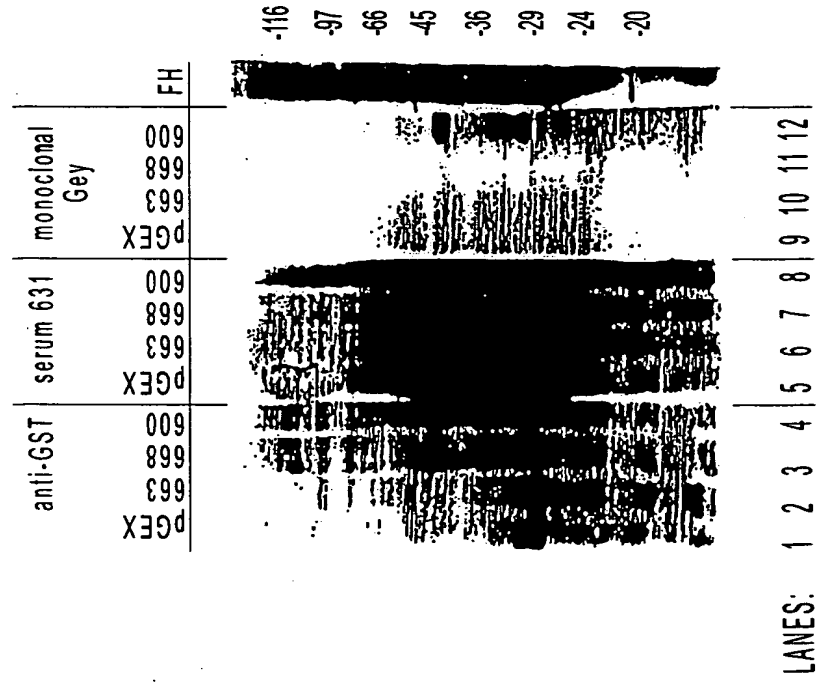


FIG. 7B

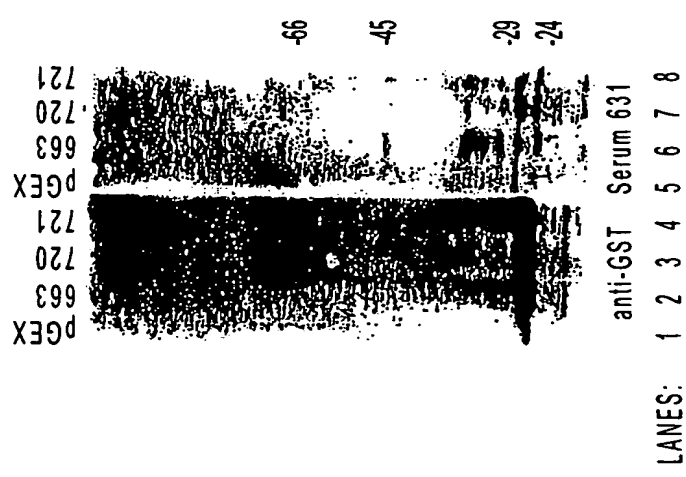
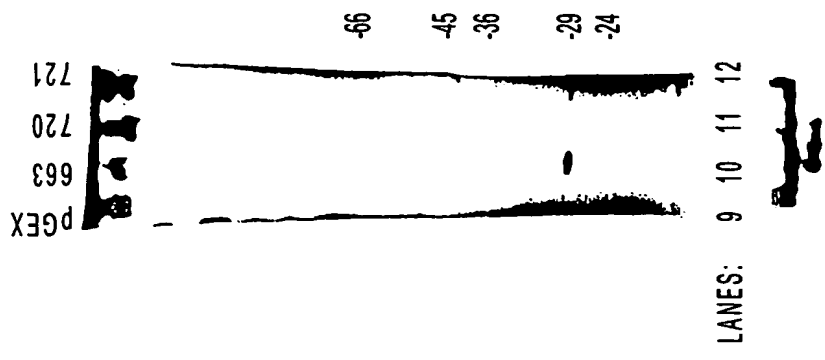


FIG. 8

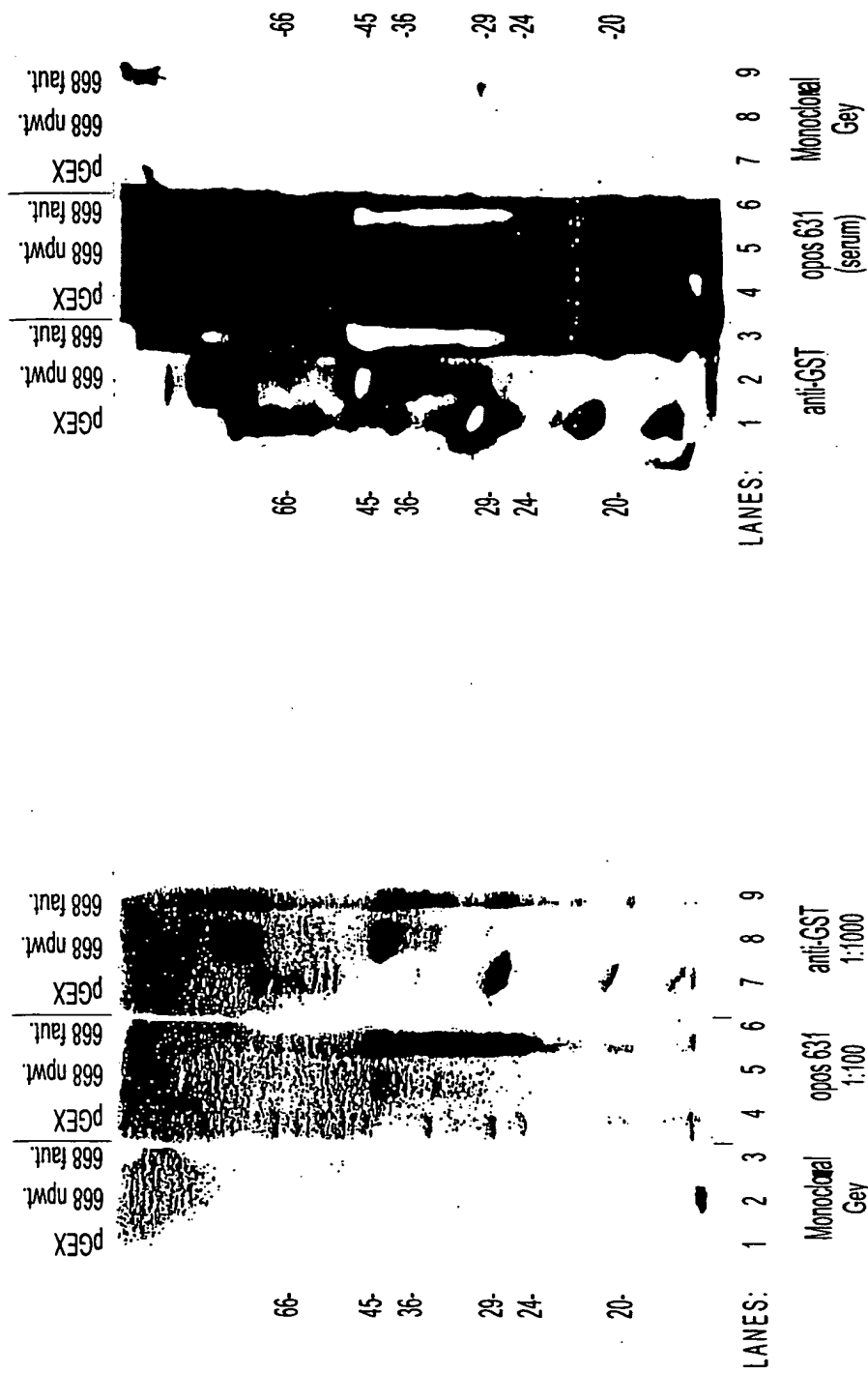


FIG. 9A

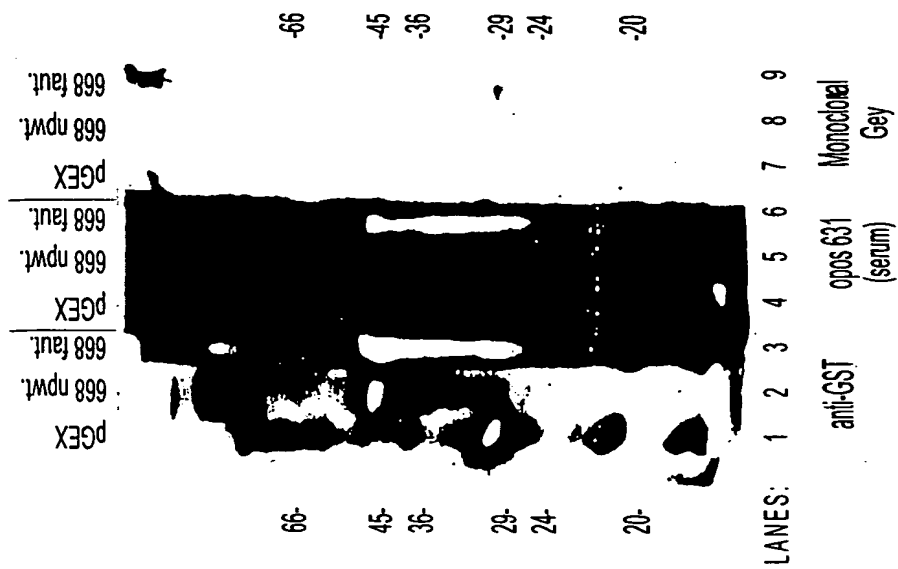


FIG. 9B

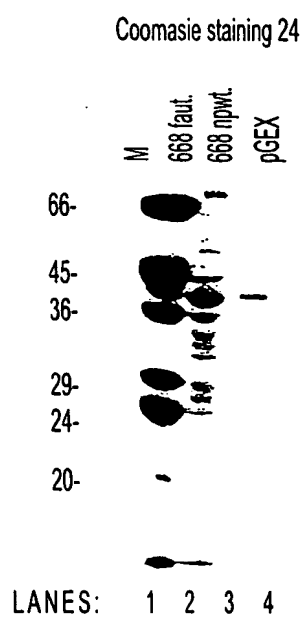
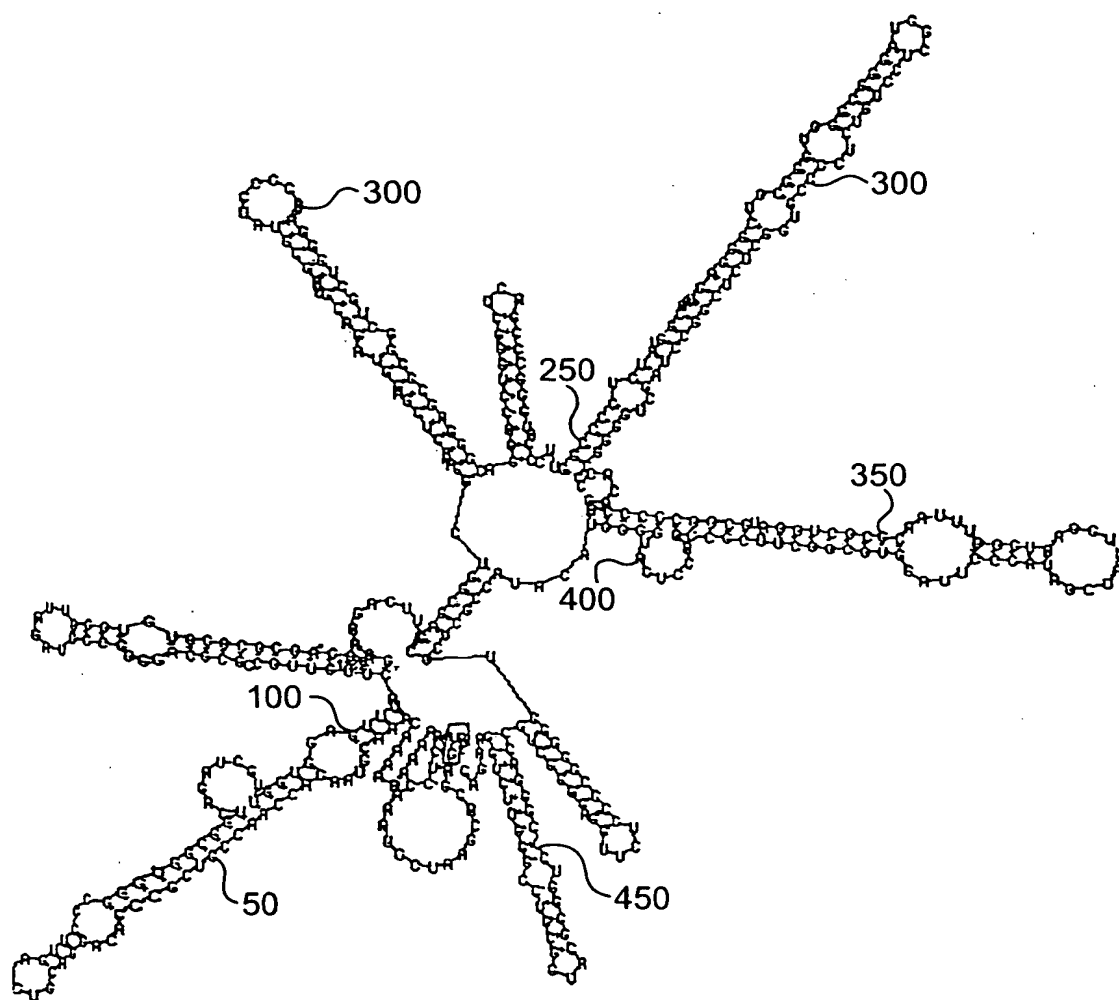


FIG. 9C

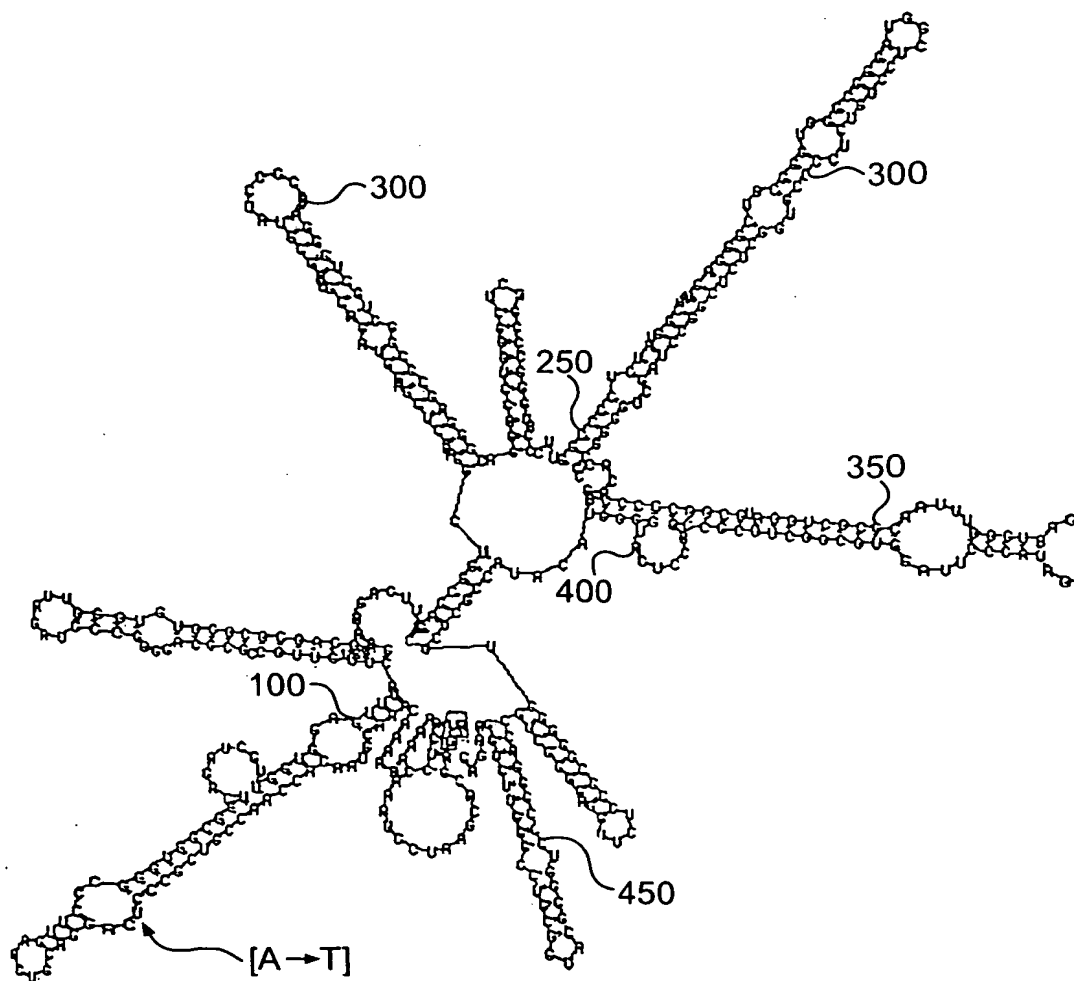
WILD TYPE
pHPI 643 & pHPI 663



(SEQ ID NO: 11)

FIG. 10A

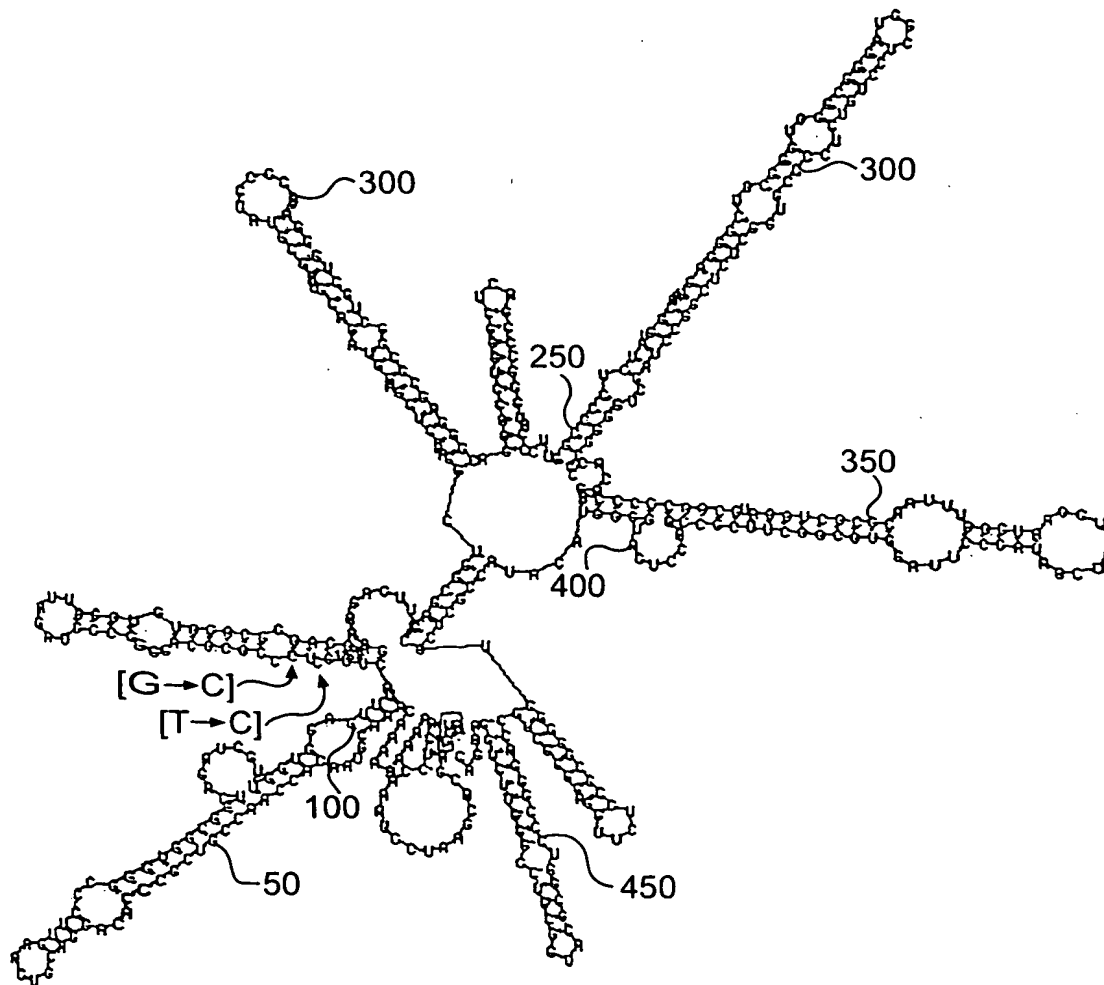
His → Leu
pHPI 676



(SEQ ID NO: 12)

FIG. 10B

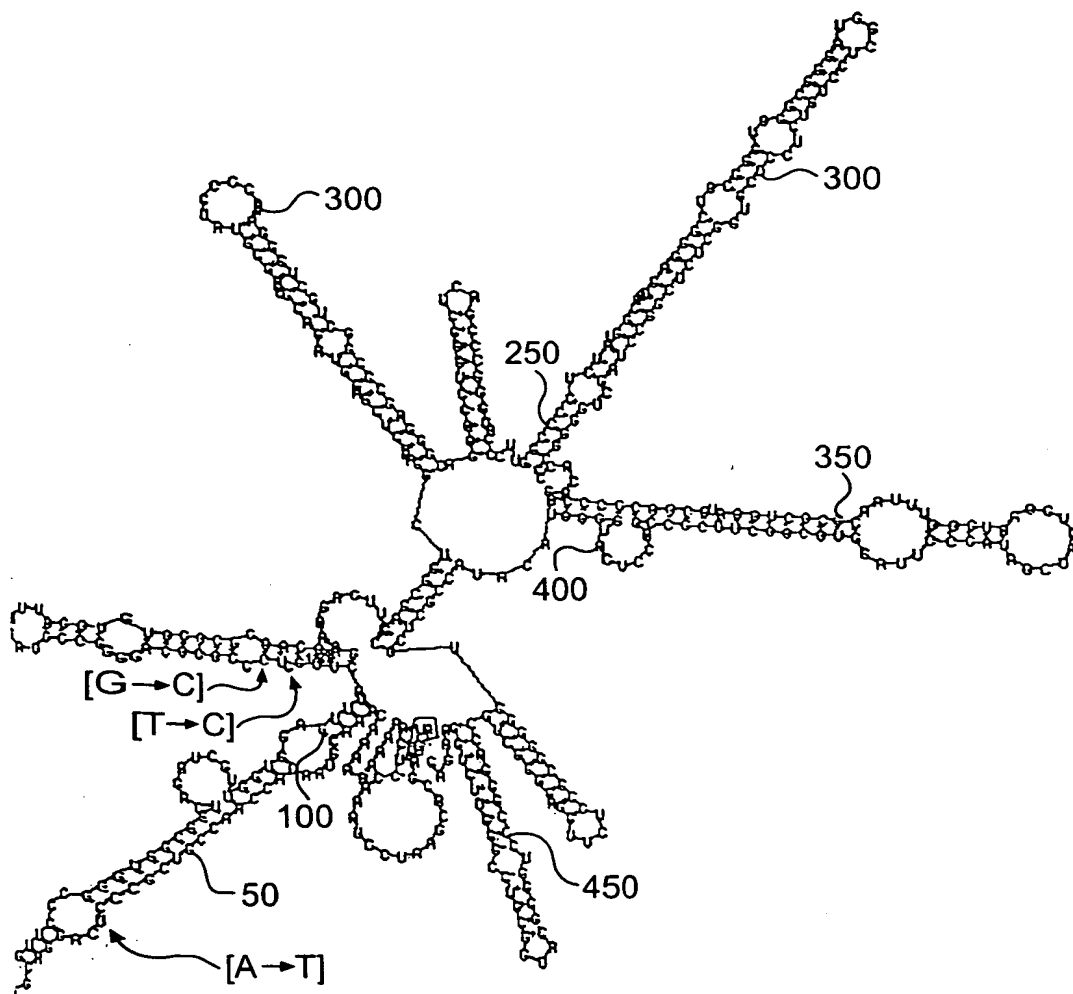
Cys → Ser
pHPI 679



(SEQ ID NO: 13)

FIG. 10C

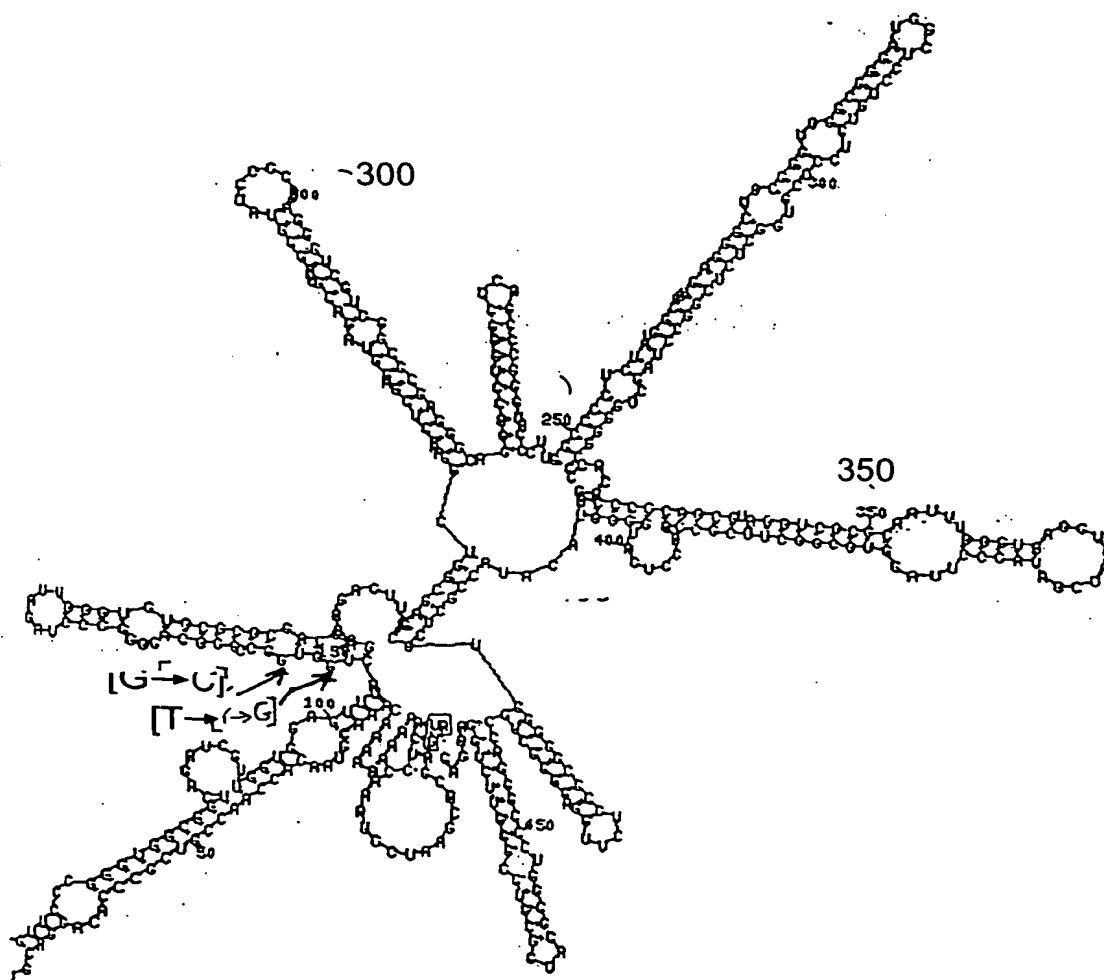
His → Leu & Cys → Ser
pHPI 719



(SEQ ID NO: 14)

FIG. 10D

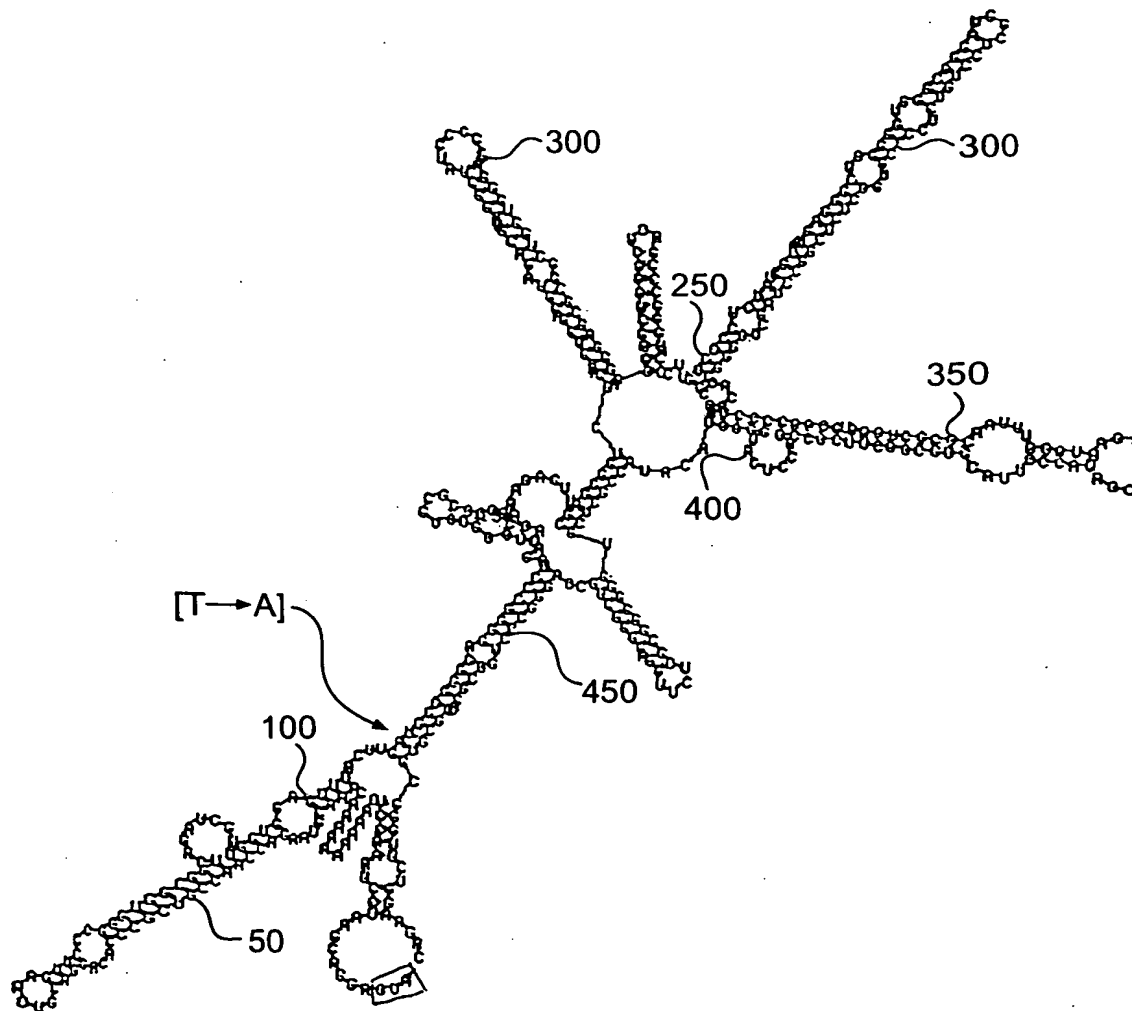
Cys-Cys → Gly- Gly
pHPI 720



(SEQ ID NO: 15)

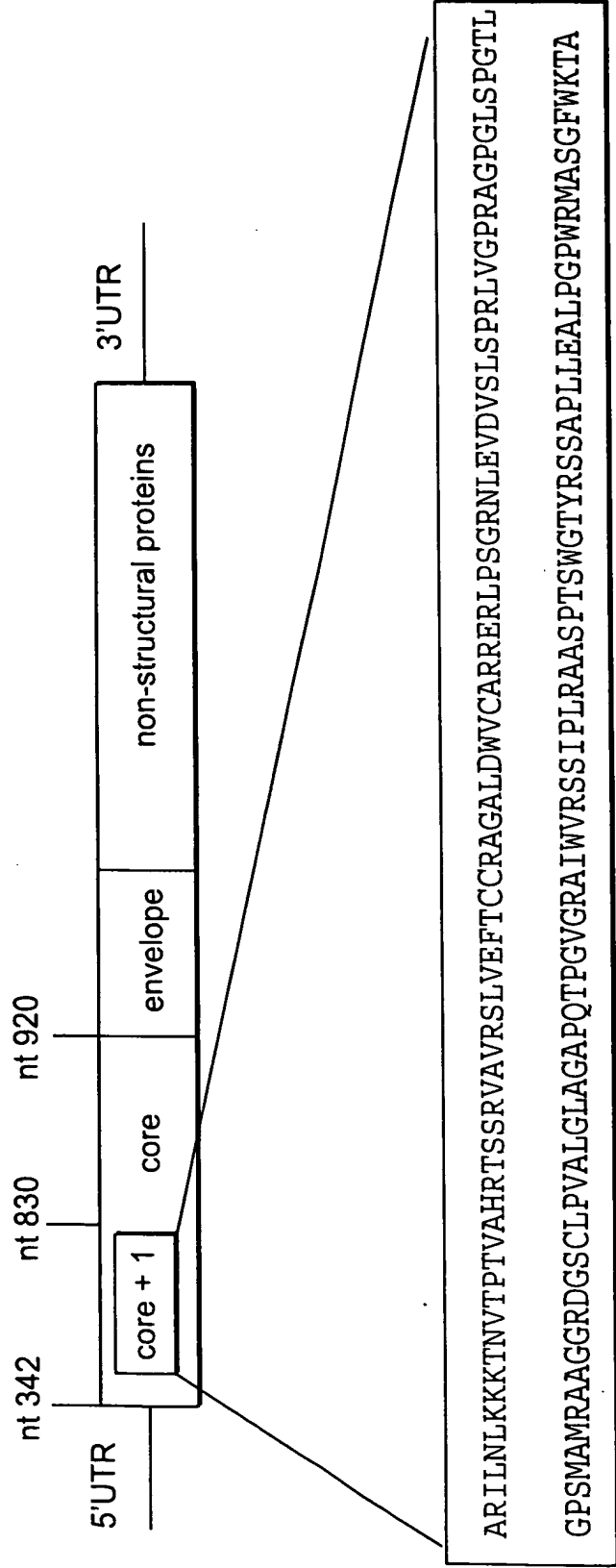
FIG. 10E

Cys → STOP CODON
pHPI 721



(SEQ ID NO: 16)

FIG. 10F



(amino acids 1 to 161 of SEQ ID NO:1)

FIG. 11

	350	360	370	380	390
(SEQIDNO2)A	TGA GCA CGA ATC CTA AAC	CTC AAA AAA AAA ACA AAC	ACA AAC GTA	ACA CCA	ACC
(SEQIDNO1)T	ACT CGT GCT TAG GAT TTG	GAG TTT TTT TTT TGT TTG	CAT TGT	TGT GGT	TGG
***	Ala Arg	Ile Leu Asn	Leu Lys Lys Lys	Thr Asn Val	Thr Pro Thr>
a	a	TRANSLATION OF HCVSEND.SEQ (RITSA)	[A]	a	a

FIG. 12A

490	500	510	520	530
* * *	* * *	* * *	* * *	* * *
CGA GAA AGA CTT CCG AGC GGT CGC AAC CTC GAG GTA GAC GTC AGC CTA				
GCT CTT TCT GAA GGC TCG CCA GCG TTG GAG CTC CAT CTG CAG TCG GAT				
Arg Glu Arg Leu Pro Ser Gly Arg Asn Leu Glu Val Asp Val Ser Leu>				
a a a	TRANSLATION OF HCVSEND.SEQ (RITSA)	[A] a a a	a a a	a a a

[illegible]

	590		600	610	620	630
*	*	*	*	*	*	*
ACC CTT GGC CCC TCT ATG GCA ATG AGG GCT GCG GGT GGG GAT GGC						
TGG GAA CCG GGG AGA TAC CGT TAC TCC CGA CGC CCA CCC GCC CTA CCG						
Thr Leu Gly Pro Ser Met Ala Met Arg Ala Ala Gly Gly Arg Asp Gly						
a a TRANSLATION OF HCVSEND.SEQ (RITSA) [A] a a a >						

FIG. 12B

780	*				790		800		810		820
*	*	*	*	*	*	*	*	*	*	*	*
GAG	GCG	CTG	CCA	GGG	CCC	TGG	CGC	ATG	GCG	TCC	GCG
CTC	CGC	GAC	GGT	CCC	GGG	ACC	GCG	TAC	CGC	AGG	CCC
Glu	Ala	Leu	Pro	Gly	Pro	Trp	Arg	Met	Ala	Ser	Gly
a a TRANSLATION OF HCVSEND.SEQ (RITSA) [A] a a a >											

830	*				840
*	*	*	*	*	*
GCG	TGA	ACT	ATG	CAA	CAG
CGC	ACT	TGA	TAC	GTT	GTC
Ala	**	Thr	Met	Gln	Gln>
TRANSLATION OF H >					

FIG. 12D

SEQUENCE RANGE: 1 TO 166

10	20	30	40	50	60
* *	* *	* *	* *	* *	* *
*ARILNLKKK	TNVPTVAHR	TSSSRVAVRS	LVEFTCCRAG	ALDWVCARRE	RLPSSGRNLEV
70	80	90	100	110	120
* *	* *	* *	* *	* *	* *
DVSLSPRLVG	PRAGPGLSPG	TLGPSMAMRA	AGGRDGSCLP	VALGLAGAPQ	TPGVGRAIWV
130	140	150	160		
* *	* *	* *	* *		
RSSIPLRAAS	PTSWGTYRSS	APLLEALPGP	WRMASGFWKT	A*TMQQ	

(SEQ ID NO:1)

FIG. 13